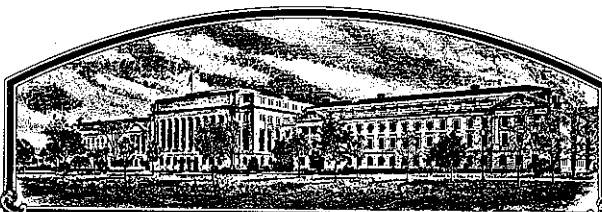


No.

8000016



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Cebeco-Handelsraad

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OF THE VARIETY OWNED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Maxi'

In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 24th day of March in
the year of our Lord one thousand nine
hundred and eighty-three.

Attest:

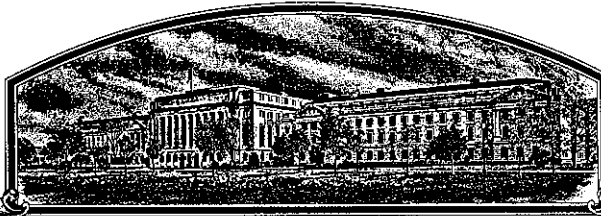
Kenneth H. Egan
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



No.

8000016



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Gebeco-Mandelsraad

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT OF MARCH 3, 1930 (45 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Maxi'

Russell

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 24th day of March in the year of our Lord one thousand nine hundred and eighty-three.

Attest:

Kenneth H. ...
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Cebeco 102		1b. VARIETY NAME MAXI <i>let 810302</i>		FOR OFFICIAL USE ONLY PV NUMBER 8000016	
2. KIND NAME Pea		3. GENUS AND SPECIES NAME Pisum sativum L.		FILING DATE 11-29-79	TIME 9:00 A.M.
4. FAMILY NAME (BOTANICAL) Leguminosae		5. DATE OF DETERMINATION January 1977		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 11-29-79 2-16-83
6. NAME OF APPLICANT(S) Cebeco-Handelsraad		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Blaak 31, P.O. Box 182 Rotterdam, The Netherlands		8. TELEPHONE AREA CODE AND NUMBER	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Dr. Kevin McVeigh, Research Dept. International Seeds, Inc. Phone: (503) 369-2251 P.O. Box 168 Halsey, OR 97348					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES *R/S. 6/10/83*

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☒ YES ☐ NO *R/S*

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED *R/S*

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

The Netherlands - 26-1-1977

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

Rotterdam, August 2, 1979
(DATE)

Nationale coöperatieve aan- en verkoop-
vereniging voor land- en tuinbouw b.z.

CEBECO-HANDELSRAAD

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, ~~at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee)~~ to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit G, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



8000016

CEBECO 102 - MAXI (GREEN PEA)

Exhibit "A"

13 A. CEBECO 102 field pea is derived from a cross made in 1970 by CEBECO-HANDELSRAAD of Allround x Finale. Single plant selections were made from the segregating populations in the early generations with the last single plant selection made in 1975. The variety is highly stable and there are no variants. The maintenance of the pure line variety is done through the following techniques:

1. line selection at the breeding station.
2. small multiplication at the breeding station.
3. producing pre-basic seed at the breeding station.

These steps are used to maintain the varietal purity of this self-pollinated ~~bean~~ ^{pea} cultivar.

1st 8/10/24

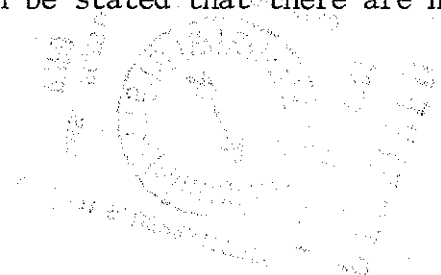
PEA APPLICATION NO. 8000016

"Maxi" (Green Pea)

EXHIBIT "A" Addendum

13A. Maxi is a highly stable self-pollinated cultivar. Commercial seed production is based on an advanced generation seed source that is very uniform genetically as would be expected from an F-10 generation. It is almost completely genetically homozygous because of the self-pollinated method of reproduction of peas and its highly inbred condition.

It is genetically stable with no known variants. In replicated progeny grow-out trials at Halsey, Oregon and in The Netherlands, there were no variants expressed in any of the 1000 seedlings observed and evaluated during the growing trials of 1980 and 1981. Therefore, it can be stated that there are no known variants in this cultivar.





INTERNATIONAL SEEDS INC.

P.O. BOX 168 • 820 FIRST STREET
HALSEY, OREGON 97348
(503) 369-2251 • TWX (510) 590-0765

EXHIBIT B

9 April 1982

Mr. Kenneth H. Evans
Acting Commissioner
Plant Variety Protection Office
U.S.D.A.
Agricultural Marketing Service
N.A.L. Building
Beltsville, MD 20705

Dear Mr. Evans:

Enclosed is additional data for our Plant Variety Protection application No. 8000016, Maxi field pea.

Maxi is a distinct cultivar of field pea. It has been evaluated at several experiment stations in the major dry pea growing areas of this country as well as in Europe. I will be citing some test data from these evaluations (copies enclosed) to substantiate my novelty claim.

Maxi is characterized by having a dwarf stature, determinate growth habit, very large size seed and a green cotyledon. It is most similar to Finale, a green pea, which was bred by CEBECO earlier. Finale is the paternal parent in the cross that yielded the Maxi pea. It can be distinguished from Finale by several quantitative characteristics. Maxi is a larger size, heavier seed being 3% heavier or 11.9g heavier per 100 seeds. Maxi flowers 2 days later than Finale and is taller in stature - both in length of straw and height of first pod than Finale.

Maxi is resistant to race 6 of the pea wilt incited by Fusarium oxysporium f. sp. pisi whereas, Finale is susceptible in trials at Mt. Vernon, Washington (see Table 2). Races 5 and 6 of this pathogen are peculiar to the major pea growing area of Northwest Washington state and are not known to be found in Europe or in the eastern pea areas of the U.S.A.

Maxi can be distinguished from Allround, an earlier CEBECO bred smooth green pea, by its larger sized, heavier seed being 16% heavier or 51g. heavier per 100 seeds. Maxi flowers for a shorter time period (2 days) than does Allround. Allround is a considerably taller cultivar being 15% or 10 cm taller than Maxi in tests at Lelystad, The Netherlands.

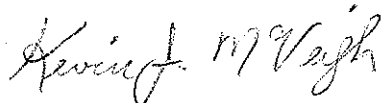
In the original application I primarily compared the Maxi pea to the green processing (vegetable) peas used in the Form GR470-15, Exhibit C, of the pea form. This includes the cultivars Alaska WR, Thomas Laxton WR, Little Marvel, Wando, Alderman WR and the Austrian winter pea.

8000016

I did this because I believed that they were the ones that one had to use as standards. However, in later trials, I have compared it to other cultivars including the principal dry peas currently grown in the U.S.A. I have revised my earlier table and submit it now as Table 3. It compares Maxi with the green processing peas listed in GR470-14. The seed weight per 1000 seeds and the plant height clearly show the differences between Maxi and the American canning peas such as Alaska 423, Little Marvel, Wando, Alderman and Thomas Laxton. Maxi distinguishes itself from Thomas Laxton by seed weight, straw length, earlier flowering and its green smooth seed surface; whereas, Thomas Laxton is a yellow wrinkled seed. The other canning peas - Alaska 423, Little Marvel, Wando and Alderman - are all green wrinkled peas, whereas, Maxi is a green smooth pea.

I feel these distinct differences show Maxi to be a unique and distinct dry field pea cultivar. I respectfully submit this data for your review.

Yours truly,



Kevin J. McVeigh
Research Agronomist

enc.

cr

Table 1. Characteristics of Selected Field Pea Cultivars at Lelystad, The Netherlands in 1981

Field Pea Cultivar	Initial Date of Flowering	Last Date of Flowering	Length of Straw (cm)	Height of Insertion of First Pod (cm)	Weight of 1000 seeds (g)	Disease Reaction To Race 1 Of <u>Fusarium oxysporum</u> <u>f. sp. pisi</u>
Vercas	15 July	8 Aug.	96	53	---	Susceptible
Allround	13 July	4 Aug.	74	36	318	Resistant
Maxi	13 July	2 Aug.	64	41	369	Resistant
Finale	11 July	2 Aug.	60	38	355	Resistant

L.S.D. (.05)	0.503 day	0.466 day	3.641 cm	4.040 cm	11.975 g	
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PEA APPLICATION NO. 8000016 - MAXI PEA

Table 2. Reaction of Selected Lines and Differential Varieties to Races 5 and 6 of Fusarium oxysporium f. sp. lisi at Mt. Vernon, WA in 1981

<u>Selected Lines and Cultivars</u>	<u>Wilt Reaction</u>	
	<u>Race 5</u>	<u>Race 6</u>
Porta	S	R
Maxi	SR	R
Finale	SR	S
Proco	S	SR-T
Paloma	S	R
Little Marvel	S	S
Darkskin perfection	S	S
New Era	S	S
New Season	S	R
WSU 23	R	S
WSU 28	R	R
WSU 31	R	R

R= Resistance
S= Susceptible

SR=Segregating for Resistance
T =Tolerant

PEA APPLICATION NO. 8000016 - MAXI PEA

Table 3. Comparison of Maxi to Standard U.S. Cultivars of Processing Peas in Holland in 1979-80.

Cultivar	1000 Grain * Weight in Grams	Plant Height ** in cm.	Flowering ** (date of 1st flower)	Seed Color Dry	Seed Surface
Maxi	351***	64****	3 June	Green	Smooth
Miranda	356	66	4 June	Yellow	Smooth
Alaska 423	213	92	23 May	Green	Wrinkled
Little Marvel	260	63	27 May	Green	Wrinkled
Wando	259	62	6 June	Green	Wrinkled
Alderman	246	155	6 June	Yellow	Wrinkled
Thomas Laxton	269	122	25 May	Yellow	Wrinkled

L.S.D. (.05) 9.34g 6.14cm 0.406 day

- *) 2 years average
 **) data collected in 1980
 ***) 4 years average
 ****) 5 years average

PEA APPLICATION NO. 8000016 - MAXI PEA

Table 4. Characteristics of Selected Field Pea Cultivars at Pullman, WA, 1981 Growing Trial.

Field Pea Cultivar	Seed Weight (g) 100 seeds	Plant Height (cm)	Nodes to First Bloom
Maxi	26.4	78	11.8
Finale	27.3	55	11.8
Miranda	29.4	79	10.8
Paloma	24.0	63	13.8
Alaska	15.0	115	8.0
Alaska (sel. normal)	15.0	105	9.0
Garfield	19.3	125	14.0
Latch	18.4	136	13.3
Tracer	14.8	120	12.5

L.S.D. (0.5)

10.51

5.7

0.43

NORTHWESTERN WASHINGTON RESEARCH AND EXTENSION UNIT
WASHINGTON STATE UNIVERSITY
MOUNT VERNON, WASHINGTON 98273

8000016

424-6121

January 14, 1982

Dr. Kevin J. McVeigh
Research Agronomist
International Seeds, Inc.
P.O. Box 168
Halsey, OR 97348

Dear Kevin:

The table below lists the field reaction of several varieties of peas to Fusarium oxysporum f sp. pisi, races 5 and 6. The data presented in the table is based on the field reaction of these selection in 1981. In both of the field locations the differential varieties were planted to establish that race 5 and 6 were the predominant races of fusarium in that specific location.

Additional data will be obtained on the specific resistance of the dry peas listed in the table on page 2 with respect to resistance to races 1, 2, 5, and 6. This information will be obtained with pure culture inoculations in the greenhouse. When this data is available, I will forward it to you.

If you have questions with respect to the reaction of the varieties in questions, please contact me.

Reaction of WSU Differential Varieties to Fusarium oxysporum f sp. pisi.
Resistance to the wilt is determined by a single dominant gene.

Selection	Wilt Resistance
Little Marvel (LM)	No resistance
Darkskin Perfection (DSP)	Race 1
New Era (NE)	Race 1, 2
New Season (NS)	Race 1, 2, 6
WSU 23	Race 1, 2, 5
WSU 28	Race 1, 5, 6
WSU 31	Race 1, 2, 5, 6

Dr. Kevin J. McVeigh
January 14, 1982

8000016

Page 2

Reaction of Selected Lines and WSU Differential Varieties to Races 5 and 6 of Fusarium oxysporum f sp pisi.

Selected Lines	Wilt Reaction	
	Race 5	Race 6
Porta	S-	S
Maxi	SR	R
Finale	SR	S
Proco	S	SR-T
Paloma	S	R

WSU Differential	Wilt Reaction	
	Race 5	Race 6
LM	S	S
DSP	S	S
NE	S	S
NS	S	R
W23	R	S
W28	R	R
W31	R	R

R = Resistance
S = Susceptible

SR = Segregating for Resistance
T = Tolerant

Sincerely,



William A. Haglund
Plant Pathologist

WAH:jh

OBJECTIVE DESCRIPTION OF VARIETY
PEA (*PISUM SATIVUM*)

NAME OF APPLICANT(S) Cebeco-Handelsraad	VARIETY NAME OR TEMPORARY DESIGNATION Maxi (Cebeco 102)
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Blaak 31, P.O.B. 182, 3000 AD ROTTERDAM, The Netherlands.	FOR OFFICIAL USE ONLY PVPO NUMBER 8000016

Place the appropriate number that describes the varietal character in the boxes below.

Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. TYPE:

 1 = GARDEN 2 = FIELD 3 = EDIBLE-PODDED

2. MATURITY:

trials in Lelystad

 Node number of first bloom: No. of days to processing Heat Units No. of days Earlier than 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL No. of days Later than 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

3. PLANT HEIGHT:

 CM. HIGH 5 year average Cm. Shorter than 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL Cm. Taller than 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

4. VINE:

 Habit: 1 = DETERMINATE 2 = INDETERMINATE Stockiness: 1 = SLIM (Alaska) 2 = MEDIUM (Thomas Laxton WR) 3 = HEAVY (Alderman) Branching: 1 = NONE (Alaska) 2 - 1-2 BRANCHES (Little Marvel) 3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar) Internodes: 1 = STRAIGHT 2 = ZIG ZAG NUMBER OF NODES

5. LEAFLETS:

 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas Laxton WR) 3 = DARK GREEN (Alderman)
4 = OTHER (Specify) Little Marvel Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM 4 = HEAVY 1 = NOT MARBLED 2 = MARBLED (Alaska) Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TWO 4 = THREE OR MORE

6. STIPULES:

 1 = LACKING 2 = PRESENT 1 = NOT CLASPING 2 = CLASPING 1 = NOT MARBLED 2 = MARBLED Size (Compared with leaflets): 1 = SMALLER 2 = SAME 3 = LARGER Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = DARKER

7. FLOWER COLOR:

 1 = WHITE 2 = GREENISH 3 = LAVENDER

1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED 2 End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)

1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman)

2 Color: 4 = OTHER (Specify) Little Marvel

1 Surface: 1 = SMOOTH 2 = ROUGH 2 Surface: 1 = SHINY 2 = DULL

2 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE

5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify)

8 2 ^{mm} LENGTH 1 5 MM. WIDTH (Between sutures) 0 6 NO. SEEDS PER POD

9. SEEDS (95-100 Tenderometer):

1 Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify)

Seive: % 1 2 3 4 5 6 7 8 AVERAGE

SEEDS (Dry, Mature):

4 Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED

1 Surface: 1 = SMOOTH 2 = DIMPLED 2 Surface: 1 = SHINY 2 = DULL

3 = WRINKLED

1 Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED

6 Primary Color: 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN

5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED

Secondary Color: 10 = GRAY 11 = BLACK

1 Hilum Floor Color: 1 = WHITE 2 = TAN 1 Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE

3 5 GRAMS PER 100 SEEDS 5 year average

10. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

2 FUSARIUM WILT 0 NEAR-WILT 1 DOWNY MILDEW

2 ASCOCHYTA BLIGHT 0 POWDERY MILDEW 0 BACTERIAL BLIGHT

0 MOSAIC 0 PEA ENATION MOSAIC 2 YELLOW BEAN MOSAIC

OTHER (Specify)

11. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

1 APHIDS OTHER (Specify)

12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	Thomas Laxton	Fresh Seed Color	Wando
Leaf Color	Little Marvel	Mature Seed Color	Alaska
Pod Color	Little Marvel	Seed Shape	Alaska
Pod Shape	Little Marvel	Plant Habit	Wando

COMMENTS:

Characteristics of the variety supporting de application.

References:

Variety name and Breeder's number

Name and address of Breeder.

Applications in other countries.

Origin.

Breeding history of the variety.

Type: (State for what purpose it is normally utilised.)

Flowering.

Number of node of the first flower.

Number of days from sowing to the first inflorescence.

Plant height: total length.

relative to control variety.

Vine: habit

Vine: stockiness.

Vine: internode.

Vine: branching.

Vine: number of nodes.(total)

Leaflets: color.

Leaflets: glaucosity.

Leaflets: number of leaflet pairs.

Stipules: absent or present

Stipules: clasping - not clasping.

Stipules: marbled or not marbled.

Stipules: color.

Stipules: size.

Flower: color of standard.

color of wings.

color of the keel.

shape of base of standard.

Pods: shape.

color.

surface.

borne.

MAXI. (Cebeco 102)

Cebeco-Handelsraad. Blaak 31 P.O. Box 182
3000 AD ROTTERDAM. The Netherlands.

On the Nat. List in the Netherlands.

entered in official trials in:

United Kingdom; France

Crossing Allround x Finale, in 1970

Two extra generations of the population
conducted in the greenhouse, plant selec-
tion in 1972; reselection in 1974

Edible pea; Field-pea.

14

73 days (5 year average)

73 cm.(5 year average)

10 cm taller than Little Marvel.
determinate.

medium.

zig-zag.

medium tot strong.

20 - 23

rather dark green.

rather strong to strong.

till 3 pairs

present.

clasping.

medium marbled.

the same color as leaflets.

bigger than leaflets.

white.

white.

white with creamy-green venation.

slightly tot medium curved.

straight and blunt.

medium green.

smooth and dull.

double.

000010

Pods:	length.	82 mm.
	width.	15 mm.
	no. seeds per pod.	6.1 (average)
Seeds:	color (dry)	bluish-green.
	color (in green podded stage)	light yellowish-green.
	shape.	rounded.
	surface.	smooth.
	cotyledon-color.	green.
	1000 kernel weight.	351 grams. (5 year average)
	hilum-floor color.	white.(greenish)

Diseases:

<i>Fusarium oxysporium</i> f. <i>pisi</i> I	not susceptible.
Top yellows.	resistant.

Protein content: on dry matter.

1977	22.9 %
1978	26.0 %
1979	24.1 %
1980	24.8 %



CEBECO-HANDELSRAAD

8000016

DESCRIPTION

Requesting authority: Board for the Plant Breeder's Right,
Wageningen

Request number: L3512

Reporting authority: RIVRO

Crop: Pea

Prel. denomination: Cebeco 102

Denomination:

DRY SEED: greyish green, smooth and almost round;
starch granules singular;
100-grain weight about 32 gr.

GRAIN IN GREEN SHELL STAGE: light green.

PLANT: medium long; the number of the 1st fertile
node is 14-15.

STIPULES: moderately maculated.

LEAF: 2 or 3 pairs of leaflets; leaflets medium
size, elliptic with rounded top and without
dentation.

FLOWER: small; base of standard straight or slightly
sinuate; 2 flowers per truss; white.

POD: length about 8 cm; width about 16 mm; straight
or slightly curved; top blunt; light green;
membrane present; predominantly 8 ovules;
mostly 2 pods per truss.

RESISTANCES: resistant to Fusarium Oxysporum forma pisi
Race 1.

BELONGS TO THE GROUP 2A; being late or mediumlate bush peas with
smooth green, in shell stage light-green seeds and blunt pods.

DIFFERENCE WITH CORRESPONDING VARIETIES:

The variety most closely resembles Finale, but differs therefrom
by taller plants, a somewhat bigger pod with somewhat bigger seeds
and 1-2 days later flowering.

BESCHRIJVING

Verzoekende instantie : Raad voor het Kwekersrecht,
Wageningen.
Rapporterende instantie: RIVRO

Aanvraag nr.: L 3512

Gewas : Erwt
Voorl.aanduiding: Cebeco 102
Benaming :

DROOG ZAAD : grijsgroen; glad en ongeveer rond; zetmeelkorrels enkelvoudig; 100-korrelgewicht ca. 32 gram.

ZAAD in DOPSTADIUM: lichtgroen.

PLANT : middenlang; het nummer van de 1e fertiele knoop is 14-15.

STEUNBLADEN : middelmatig gevlekt.

BLAD : 2-3 jukkelig; blaadjes midden groot, elliptisch met afgeronde top en gaverand.

BLOEM : klein ; vlagbasis recht of zwak gelobd; 2 bloemen per tros; wit.

PEUL : lengte ca. 8 cm; breedte circa 16 mm; recht of zwak teruggebogen; top stomp; lichtgroen; vlies aanwezig; overwegend 8 zaadbeginsels; meestal 2 peulen per tros.

RESISTENTIES : resistent tegen *Fusarium oxysporum* forma pisi ras 1.

BEHOORT TOT DE GROEP 2A; zijnde late- of middentijdse stamerwten met gladde groene-
in dopstadium lichtgroene zaden en stompe peulen.

VERSCHIL MET OVEREENKOMSTIGE RASSEN:

Het ras komt het meest overeen met 'Finale', doch verschilt daarvan door een hoger gewas, een iets grovere peul met iets grotere zaden en 1-2 dagen latere bloei.



CEBECO-HANDELSRAAD

Postbus 182 3000 AD Rotterdam

EXHIBIT E

8000016

Authorizing

By this we authorize : Messrs International Seeds, Inc.
P.O. Box 168
Halsey/Oregon

to represent us in the U.S.A. for the variety Cebeco 102
pea and we authorize them specially to act on our behalf
for any matters regarding the Plant Variety Protection
for this variety.

Rotterdam, August 2 1979

CEBECO-HANDELSRAAD

Nationale coöperatieve en verkoop-
vereniging voor land- en tuinbouw b.a.

CEBECO HANDELSRAAD

P.O. Box 182, 3000 AD Rotterdam, The Netherlands Telephone +31 10-4544911 Telex 21398 cbco nl Fax +31 10-4113889
Bank: Rabobank Nederland, Account number 30.00.00.065 Giro bank account Rabobank 5658 stating 30.00.00.065
Address: Blaak 31, 3011 GA Rotterdam

Registered No. 54.571 Rotterdam

- BY AIRMAIL
U.S. Department of Agriculture
Plant Variety Rights Office
PGGI Building 001, room 335, Barc-West
BELTSVILLE
Maryland 20705
- U.S.A.

Dept:
WVDK/tg

Direct dial number: ROTTERDAM,
4544 504 September 22, 1989

Dear Sir/Madam:

You may already know that the Plant Breeding and Seeds Departments of Cebeco-Handelsraad have integrated into the new company CEBECO ZADEN B.V.

Therefore we kindly request you to transfer all varieties, for which an application has been made or which have been entered in the name of Cebeco-Handelsraad, to the name of CEBECO ZADEN B.V.

For the sake of clarity we give you once more the full address:

CEBECO ZADEN B.V.
P.O. Box 182
3000 AD Rotterdam
the Netherlands.

Under this cover you will find a list in which we mention all varieties involved according to the latest data that we have. We shall be pleased to receive your confirmation of transfer at your earliest convenience. Any possible invoice for charges due can be sent to Cebeco Zaden BV.

Yours faithfully,

CEBECO-HANDELSRAAD
Transferrer

Rotterdam,

CEBECO ZADEN B.V.
Transferee

Rotterdam,

Nationale coöperatieve en verkoop-
vereniging voor land- en tuinbouw b.a.
CEBECO-HANDELSRAAD
.....

CEBECO ZADEN B.V.
Postbus 182 - 3000 AD Rotterdam

Enclosure

Varieties of Cebeco Zaden B.V. in the USA

species	variety	name	date of grant	no. grant
		with PVP		
Red fescue	Center	Center	88-01-15	8700077
Spring barley	Bellona	Bellona	85-07-26	8300085
	Apex	Apex	85-07-26	8300084
	Efron	Efron	85-10-31	8500012
Perennial ryegrass	Elka	Elka	82-02-18	8100018
White pea	Miranda	Miranda	82-10-28	8100054
	Belinda	Belinda	86-03-31	8500013
Blue pea	✓ Ricardo	Ricardo	85-08-30	8500014
	Maxi	Maxi	83-03-24	8000016
	Othello	Othello	86-03-31	8500015
		application made		
Perennial ryegrass	EG 138	Surprise	88-12-19	8900062
Red fescue	Frc 137	Capitol	88-12-19	8900061
	CRU 499	Cindy		
	Frr 130	Claudia		
Kentucky bluegrass	Pp 112	Ampellia		
White pea	1415	Impala	89-1-26	8900081
	1416	Renata	89-04-04	8900145
Blue pea	Solara	Solara	88-01-29	8800056



United States
Department of
Agriculture

Agricultural
Marketing
Service

Washington,
D.C.
20250

September 9, 1983

TO : Assistant Secretary *[Signature]*
FROM : Deputy Administrator *[Signature]*
SUBJECT: Plant Variety Protection Certificates

The following attached certificates have been prepared for issuance under the Plant Variety Protection Act:

<u>Certificate No.</u>	<u>Applicant</u>
8300033	G. & P. Seed Co., Inc.
8300078	Coker's Pedigreed Seed Company
8300108	G. & P. Seed Co., Inc.
8300112	Delta and Pine Land Company
8300149	G. E. Pogue Seed Co., Inc.
8200100	Midwest Oilseeds, Inc.
8200133	Land O'Lakes, Inc.
8200140	Coker's Pedigreed Seed Company
8200144	Pioneer Hi-Bred International, Inc.
8200160	Zoecon Corporation
*8000016	Cebeco-Handelsraad
*8100054	Cebeco-Handelsraad

*These certificates are being reissued to show they have changed to Title V protection. The original dates of issuance are being used.

12 Attachments

